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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/397,342

1644

Tung M.

DATE: 04/06/2000
TIME: 10:31:36

Input Set: I397342.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

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1 <110> APPLICANT: Adams, Sean
2 Pan, James
3 Zhong, Alan
4 <120> TITLE OF INVENTION: UCP4
5 <130> FILE REFERENCE: P1626R1
6 <140> CURRENT APPLICATION NUMBER: US/09/397,342
7 <141> CURRENT FILING DATE: 1999-09-14
8 <150> EARLIER APPLICATION NUMBER: US 60/101,279
9 <151> EARLIER FILING DATE: 1998-09-22
10 <150> EARLIER APPLICATION NUMBER: US 60/114,223
11 <151> EARLIER FILING DATE: 1998-12-30
12 <150> EARLIER APPLICATION NUMBER: US 60/129,674
13 <151> EARLIER FILING DATE: 1999-04-16
14 <160> NUMBER OF SEQ ID NOS: 18
15 <210> SEQ ID NO 1
16 <211> LENGTH: 323
17 <212> TYPE: PRT
18 <213> ORGANISM: Homo sapiens
19 <400> SEQUENCE: 1
20 Met Ser Val Pro Glu Glu Glu Glu Arg Leu Leu Pro Leu Thr Gln
21 1 5 10 15
22 Arg Trp Pro Arg Ala Ser Lys Phe Leu Leu Ser Gly Cys Ala Ala
23 20 25 30
24 Thr Val Ala Glu Leu Ala Thr Phe Pro Leu Asp Leu Thr Lys Thr
25 35 40 45
26 Arg Leu Gln Met Gln Gly Glu Ala Ala Leu Ala Arg Leu Gly Asp
27 50 55 60
28 Gly Ala Arg Glu Ser Ala Pro Tyr Arg Gly Met Val Arg Thr Ala
29 65 70 75
30 Leu Gly Ile Ile Glu Glu Glu Gly Phe Leu Lys Leu Trp Gln Gly
31 80 85 90
32 Val Thr Pro Ala Ile Tyr Arg His Val Val Tyr Ser Gly Gly Arg
33 95 100 105
34 Met Val Thr Tyr Glu His Leu Arg Glu Val Val Phe Gly Lys Ser
35 110 115 120
36 Glu Asp Glu His Tyr Pro Leu Trp Lys Ser Val Ile Gly Gly Met
37 125 130 135
38 Met Ala Gly Val Ile Gly Gln Phe Leu Ala Asn Pro Thr Asp Leu
39 140 145 150
40 Val Lys Val Gln Met Gln Met Glu Gly Lys Arg Lys Leu Glu Gly
41 155 160 165
42 Lys Pro Leu Arg Phe Arg Gly Val His His Ala Phe Ala Lys Ile
43 170 175 180
44 Leu Ala Glu Gly Gly Ile Arg Gly Leu Trp Ala Gly Trp Val Pro

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45		185	190	195
46	Asn Ile Gln Arg	Ala Ala Leu Val	Asn Met Gly Asp	Leu Thr Thr
47		200	205	210
48	Tyr Asp Thr Val	Lys His Tyr Leu Val	Leu Asn Thr Pro	Leu Glu
49		215	220	225
50	Asp Asn Ile Met	Thr His Gly Leu Ser	Ser Leu Cys Ser	Gly Leu
51		230	235	240
52	Val Ala Ser Ile	Leu Gly Thr Pro Ala	Asp Val Ile Lys	Ser Arg
53		245	250	255
54	Ile Met Asn Gln	Pro Arg Asp Lys Gln	Gly Arg Gly Leu	Leu Tyr
55		260	265	270
56	Lys Ser Ser Thr	Asp Cys Leu Ile Gln	Ala Val Gln Gly	Glu Gly
57		275	280	285
58	Phe Met Ser Leu	Tyr Lys Gly Phe Leu	Pro Ser Trp Leu	Arg Met
59		290	295	300
60	Thr Pro Trp Ser	Met Val Phe Trp Leu	Thr Tyr Glu Lys	Ile Arg
61		305	310	315
62	Glu Met Ser Gly	Val Ser Pro Phe		
63		320	323	

64 <210> SEQ ID NO 2

65 <211> LENGTH: 1039

66 <212> TYPE: DNA

67 <213> ORGANISM: Homo sapiens

68 <400> SEQUENCE: 2

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69 ccgagctcgg atcccgttat cgtcttgccg tactgctgaa tgtccgtccc 50
70 ggaggaggag gagaggcttt tgccgctgac ccagagatgg ccccgagcga 100
71 gcaaattcct actgtccggc tgccgctgac ccgtggccga gctagcaacc 150
72 tttcccctgg atctcacaaa aactcgactc caaatgcaag gagaagcagc 200
73 tcttgctcgg ttgggagacg gtgcaagaga atctgcccc tataggggaa 250
74 tgggtgcgcac agccctaggg atcattgaag aggaaggctt tctaaagctt 300
75 tggcaaggag tgacacccgc catctacaga cacgtagtgt attctggagg 350
76 tcgaatggtc acatatgaac atctccgaga ggttgtgttt ggcaaaagt 400
77 aagatgagca ttatcccctt tggaaatcag tcattggagg gatgatggct 450
78 ggtgttattg gccagttttt agccaatcca actgacctag tgaaggttca 500
79 gatgcaaatg gaaggaaaaa ggaaactgga aggaaaacca ttgcgatttc 550
80 gtggtgtaca tcatgcattt gcaaaaatct tagctgaagg aggaatacga 600
81 gggctttggg caggctgggt acccaatata caaagagcag cactggtgaa 650
82 tatgggagat ttaaccactt atgatacagt gaaacactac ttggtattga 700
83 atacaccact tgaggacaat atcatgactc acggtttatc aagtttatgt 750
84 tctggactgg tagcttctat tctgggaaca ccagccgatg tcatcaaaag 800
85 cagaataatg aatcaaccac gagataaaca aggaaggagg cttttgtata 850
86 aatcatcgac tgactgcttg attcaggctg ttcaaggatga aggattcatg 900
87 agtctatata aaggcttttt accatcttgg ctgagaatga ccccttggtc 950
88 aatggtgttc tggcttactt atgaaaaaat cagagagatg agtggagtca 1000
89 gtccatttta agaattctgc agatatccat cacactggc 1039

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90 <210> SEQ ID NO 3

91 <211> LENGTH: 31

92 <212> TYPE: DNA

93 <213> ORGANISM: Artificial

94 <220> FEATURE:

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95  <221> NAME/KEY: Misc-feature
96  <222> LOCATION: 1-31
97  <223> OTHER INFORMATION: Sequence is synthesized
98  <400> SEQUENCE: 3
99      cgcggatccc gttatcgctt tgcgctactg c 31
100 <210> SEQ ID NO 4
101 <211> LENGTH: 34
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial
104 <220> FEATURE:
105 <221> NAME/KEY: Misc-feature
106 <222> LOCATION: 1-34
107 <223> OTHER INFORMATION: Sequence is synthesized
108 <400> SEQUENCE: 4
109      gcggaattct taaaatggac tgactccact catc 34
110 <210> SEQ ID NO 5
111 <211> LENGTH: 1248
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial
114 <220> FEATURE:
115 <221> NAME/KEY: Misc-feature
116 <222> LOCATION: 1-1248
117 <223> OTHER INFORMATION: Sequence is synthesized
118 <220> FEATURE:
119 <221> NAME/KEY: unknown
120 <222> LOCATION: 1231
121 <223> OTHER INFORMATION: unknown base
122 <400> SEQUENCE: 5
123      cgttatcgtc ttgcgctact gctgaatgtc cgtcccggag gaggaggaga 50
124      ggcttttgcc gctgaccag agatggcccc gagcgagcaa attcctactg 100
125      tccggctgcg cggtaccgt ggccgagcta gcaacctttc ccctggatct 150
126      cacaaaaact cgactccaaa tgcaaggaga agcagctctt gctcggttgg 200
127      gagacggtgc aagagaatct gccccctata ggggaatggt gcgcacagcc 250
128      ctagggatca ttgaagagga aggcctttcta aagctttggc aaggagtgc 300
129      acccgccatt tacagacacg tagttatttc tggaggtcga atggtcacat 350
130      atgaacatct ccgagagggt gtgtttggca aaagtgaaga tgagcattat 400
131      cccctttgga aatcagtcac tggagggatg atggctggtg ttattggcca 450
132      gtttttagcc aatccaactg acctagtga ggttcagatg caaatggaag 500
133      gaaaaaggaa actggaagga aaaccattgc gatttcgtgg tgtacatcat 550
134      gcatttgcaa aaatcttagc tgaaggagga atacgaaggc tttgggcagg 600
135      ctgggtaccc aatatacaaa gagcagcact ggtgaatatg ggagatttaa 650
136      ccacttatga tacagtgaac cactacttgg tattgaatac accacttgag 700
137      gacaatatca tgactcacgg tttatcaagt ttatgttctg gactggtagc 750
138      ttctattctg ggaacaccag ccgatgtcat caaaagcaga ataataatc 800
139      aaccacgaga taaacaagga aggggacttt tgtataaatc atcgactgac 850
140      tgcttgatc aggtgttca aggtgaagga ttcatgagtc tatataaagg 900
141      ctttttacca tcttggtgga gaatgacccc ttggtcaatg gtgttctggc 950
142      ttacttatga aaaaatcaga gagatgagtg gagtcagtc attttaaac 1000
143      cctaaagatg caacccttaa agatacagtg ttcagtatta ttgaaatatg 1050
144      ggcacatgca acacataccc cctattatct ctacctctt aggaagacac 1100

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/397,342

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145 ctattccaca gagactgatt tatagggggc agcactttat ttttttctgg 1150
 146 aaacccaagt tctctttgac tcctcttttt gtccaaaagt gatctggtcg 1200
 W--> 147 gatctcaciaa ggccatccaa tgagaccccg nacagcattt tctaaaga 1248
 148 <210> SEQ ID NO 6
 149 <211> LENGTH: 58
 150 <212> TYPE: DNA
 151 <213> ORGANISM: Artificial
 152 <220> FEATURE:
 153 <221> NAME/KEY: Misc-feature
 154 <222> LOCATION: 1-58
 155 <223> OTHER INFORMATION: Sequence is synthesized
 156 <400> SEQUENCE: 6
 157 cgcgatccg aaatggacta caaggacgac gatgacaagt ccgtcccga 50
 158 ggaggagg 58
 159 <210> SEQ ID NO 7
 160 <211> LENGTH: 35
 161 <212> TYPE: DNA
 162 <213> ORGANISM: Artificial
 163 <220> FEATURE:
 164 <221> NAME/KEY: Misc-feature
 165 <222> LOCATION: 1-35
 166 <223> OTHER INFORMATION: Sequence is synthesized
 167 <400> SEQUENCE: 7
 168 gcgaagcttg ccatggttg actgaagcct tcaga 35
 169 <210> SEQ ID NO 8
 170 <211> LENGTH: 33
 171 <212> TYPE: DNA
 172 <213> ORGANISM: Artificial
 173 <220> FEATURE:
 174 <221> NAME/KEY: Misc-feature
 175 <222> LOCATION: 1-33
 176 <223> OTHER INFORMATION: Sequence is synthesized
 177 <400> SEQUENCE: 8
 178 cgcaattct caaaacggtg attcccgtaa cat 33
 179 <210> SEQ ID NO 9
 180 <211> LENGTH: 61
 181 <212> TYPE: DNA
 182 <213> ORGANISM: Artificial
 183 <220> FEATURE:
 184 <221> NAME/KEY: Misc-feature
 185 <222> LOCATION: 1-61
 186 <223> OTHER INFORMATION: Sequence is synthesized
 187 <400> SEQUENCE: 9
 188 gcgaagcttg ccatggacta caaggacgac gatgacaagg ttggactgaa 50
 189 gccttcagac g 61
 190 <210> SEQ ID NO 10
 191 <211> LENGTH: 19
 192 <212> TYPE: DNA
 193 <213> ORGANISM: Artificial
 194 <220> FEATURE:

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195 <221> NAME/KEY: Misc-feature
196 <222> LOCATION: 1-19
197 <223> OTHER INFORMATION: Sequence is synthesized
198 <400> SEQUENCE: 10
199 aatgcctatc gccgaggag 19
200 <210> SEQ ID NO 11
201 <211> LENGTH: 20
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial
204 <220> FEATURE:
205 <221> NAME/KEY: Misc-feature
206 <222> LOCATION: 1-20
207 <223> OTHER INFORMATION: Sequence is synthesized
208 <400> SEQUENCE: 11
209 gtaggaactt gctcgtccgg 20
210 <210> SEQ ID NO 12
211 <211> LENGTH: 22
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial
214 <220> FEATURE:
215 <221> NAME/KEY: Misc-feature
216 <222> LOCATION: 1-22
217 <223> OTHER INFORMATION: Sequence is synthesized
218 <400> SEQUENCE: 12
219 tgctcgcgct cacgcagaga tg 22
220 <210> SEQ ID NO 13
221 <211> LENGTH: 24
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial
224 <220> FEATURE:
225 <221> NAME/KEY: Misc-feature
226 <222> LOCATION: 1-24
227 <223> OTHER INFORMATION: Sequence is synthesized
228 <400> SEQUENCE: 13
229 gaaatcgtgc gtgacatcaa agag 24
230 <210> SEQ ID NO 14
231 <211> LENGTH: 23
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial
234 <220> FEATURE:
235 <221> NAME/KEY: Misc-feature
236 <222> LOCATION: 1-23
237 <223> OTHER INFORMATION: Sequence is synthesized
238 <400> SEQUENCE: 14
239 ctcttctgc atcctgtcag caa 23
240 <210> SEQ ID NO 15
241 <211> LENGTH: 22
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial
244 <220> FEATURE:

Input Set: I397342.RAW

Line ? Error/Warning

Original Text

147 W "N" or "Xaa" used: Feature required-----
gatctcaciaa ggccatccaa tgagaccccg nacagcat